

What is claimed is:

1. A method of adjusting a fixed mirror of a double-beam interferometer including a control interferometer, comprising:

5 detecting a laser interference light beam from the control interferometer; and

adjusting an angle of the fixed mirror with respect to a laser light beam axis in a range from a state where laser light beams do not interfere at all to a state where
10 an intensity of interference of the laser light beams becomes maximum or the laser light beams become in an arbitrary interference state.

2. The method of adjusting a fixed mirror according to claim 1, wherein said adjusting step includes:

measuring amplitudes of the laser interference light beam while moving a posture of the fixed mirror until the amplitude becomes larger than a preset reference value;

measuring amplitudes of the laser interference light
20 beam while moving the posture of the fixed mirror to points on a circle around a point where the amplitude becomes larger than the reference value as a center;

setting a point having the largest amplitude among all the measured points on the circle as the center of
25 the next circle; and

repeating the measuring step of the amplitudes at the points on the circle and the setting step until the amplitude at the center of the circle becomes maximum among all the measured points on the circle.

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3. The method of adjusting a fixed mirror according to claim 2, wherein said adjusting step further includes:

moving the posture of the fixed mirror so that phase differences of a vertical side signal and a horizontal side signal from a reference signal of the laser interference light beam approach preset target phase differences.

4. An interferometric spectrophotometer

comprising:

a control interferometer having a fixed mirror;
a photo detector for detecting a laser interference light beam from the control interferometer; and

an adjusting mechanism for adjusting an angle of the fixed mirror with respect to a laser light beam axis in a range from a state where laser light beams do not interfere at all to a state where an intensity of interference of the laser light beams becomes maximum or the laser light beams become in an arbitrary interference state.

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